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**Section 1 - PRODUCT AND COMPANY IDENTIFICATION**

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**Material Name**

EPDM X-23 Low VOC Bonding Adhesive

**Synonyms**

Adhesive

**Chemical Family**

Adhesive

**Product Use**

Contact Adhesive

**Restrictions on Use**

For industrial use only.

**Manufacturer Information**

Carlisle SynTec

1285 Ritner Highway

Carlisle, PA 17013

USA

Phone: +1-800-479-6832

Emergency Phone #: +1-800-424-9300 (CHEMTREC)

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**Section 2 - HAZARDS IDENTIFICATION**

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Flammable Liquids - Category 2

Aspiration Hazard - Category 1

Serious Eye Damage/Eye Irritation - Category 2A

Skin Sensitization - Category 1A

Carcinogenicity - Category 2

Specific Target Organ Toxicity - Single Exposure - Category 1 ( central nervous system )

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 ( central nervous system )

Specific Target Organ Toxicity - Repeated Exposure - Category 2 ( blood )

**GHS Label Elements****Symbol(s)****Signal Word**

Danger

**Material Name: EPDM X-23 Low VOC Bonding Adhesive**

**Product #: 324002**

**Hazard Statement(s)**

Highly flammable liquid and vapor  
May be fatal if swallowed and enters airways  
Causes serious eye irritation  
May cause allergic skin reaction  
Suspected of causing cancer  
Causes damage to organs  
May cause respiratory irritation. May cause drowsiness or dizziness  
Causes damage to organs through prolonged or repeated exposure  
May cause damage to organs through prolonged or repeated exposure

**Precautionary Statement(s)**

**Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Keep container tightly closed  
Keep away from heat/sparks/open flame/hot surfaces - No smoking  
Ground/Bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting equipment  
Take precautionary measures against static discharge  
Use only non-sparking tools  
Use only outdoors or in a well-ventilated area  
Wear protective gloves/protective clothing/eye protection/face protection  
Do not breathe dust/fume/gas/mist/vapours/spray  
Wash thoroughly after handling  
Contaminated work clothing must not be allowed out of the workplace  
Do not eat, drink or smoke when using this product

**Response**

In case of fire: Use appropriate media to extinguish  
If exposed: Call a POISON CENTER or doctor/physician  
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor if you feel unwell  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
IF SWALLOWED: Immediately call a POISON CENTER/doctor  
Do NOT induce vomiting  
Specific treatment (see label)

**Storage**

Store in a well-ventilated place. Keep container tightly closed  
Keep cool  
Store locked up

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations

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**Other Hazards**

No additional information available.

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**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

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CAS	Component Name	Percent
Mixture	Polychloroprene	7-13
Trade Secret	Polyphenol antioxidant	0.1-1
1309-48-4	Magnesium oxide	0.1-1
1314-13-2	Zinc oxide	0.1-1
Trade Secret	Heat reactive phenolic resin	1-5
108-88-3	Toluene	3-7
67-64-1	Acetone	1-5
540-88-5	tert-Butyl acetate	30-60
Mixture	Styrene butadiene polymer	0.5-1.5
Mixture	Phenolic resin	0.5-1.5
79-20-9	Methyl acetate	10-30

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**Section 4 - FIRST AID MEASURES**

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**Description of Necessary Measures**

If exposed or concerned: Call a POISON CENTER or doctor/physician.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

**Skin**

Remove contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation or rash occurs, seek medical advice/attention.

**Eyes**

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

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**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

**Most Important Symptoms/Effects****Acute**

May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system. May cause respiratory irritation. May cause drowsiness or dizziness.

**Delayed**

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure: central nervous system, blood.

**Note to Physicians**

Contains toluene.

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**Section 5 - FIRE FIGHTING MEASURES**

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**Extinguishing Media****Suitable Extinguishing Media**

Dry chemical, foam or carbon dioxide. Water may be ineffective.

**Unsuitable Extinguishing Media**

Do not use high-pressure water streams.

**Special Hazards Arising from the Chemical**

Highly flammable liquid and vapor. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

**Hazardous Combustion Products**

Oxides of carbon, oxides of nitrogen

**Advice for firefighters**

Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/bond container and receiving equipment. Take action to prevent static discharges.

**Fire Fighting Measures**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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**Section 6 - ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**

Remove all sources of ignition. Avoid breathing vapors. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

**Environmental Precautions**

Avoid release to the environment.

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**Section 7 - HANDLING AND STORAGE**

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**Precautions for Safe Handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Take precautionary measures against static discharge. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN.

**Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place. Keep container tightly closed

Keep cool

Store locked up

Keep away from heat and ignition sources. Do not cut, puncture, or weld on or near this container. Empty containers may contain product residue.

**Incompatible Materials**

Acids, bases, strong oxidizing agents

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**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Component Exposure Limits**

<b>Magnesium oxide</b>	1309-48-4	
ACGIH:	10 mg/m <sup>3</sup> TWA inhalable fraction	
NIOSH:	750 mg/m <sup>3</sup> IDLH fume	
OSHA (US):	15 mg/m <sup>3</sup> TWA fume, total particulate	
Mexico:	10 mg/m <sup>3</sup> TWA LMPE-PPT as Mg fume	
<b>Zinc oxide</b>	1314-13-2	
ACGIH:	2 mg/m <sup>3</sup> TWA respirable fraction	10 mg/m <sup>3</sup> STEL respirable fraction
NIOSH:	5 mg/m <sup>3</sup> TWA dust and fume	10 mg/m <sup>3</sup> STEL fume
	15 mg/m <sup>3</sup> Ceiling dust	500 mg/m <sup>3</sup> IDLH
OSHA (US):	5 mg/m <sup>3</sup> TWA fume; 15 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable fraction	
Mexico:	5 mg/m <sup>3</sup> TWA LMPE-PPT fume; 10 mg/m <sup>3</sup> TWA LMPE-PPT dust	

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	10 mg/m <sup>3</sup> STEL [LMPE-CT] fume	
<b>Toluene</b>	108-88-3	
ACGIH:	20 ppm TWA	
NIOSH:	100 ppm TWA; 375 mg/m <sup>3</sup> TWA	150 ppm STEL; 560 mg/m <sup>3</sup> STEL
	500 ppm IDLH	
Europe:	50 ppm TWA; 192 mg/m <sup>3</sup> TWA	100 ppm STEL; 384 mg/m <sup>3</sup> STEL
	Possibility of significant uptake through the skin	
OSHA (US):	200 ppm TWA	300 ppm Ceiling
Mexico:	50 ppm TWA LMPE-PPT; 188 mg/m <sup>3</sup> TWA LMPE-PPT	
	Skin - potential for cutaneous absorption	
<b>Acetone</b>	67-64-1	
ACGIH:	250 ppm TWA	500 ppm STEL
NIOSH:	250 ppm TWA; 590 mg/m <sup>3</sup> TWA	2500 ppm IDLH (10% LEL)
Europe:	500 ppm TWA; 1210 mg/m <sup>3</sup> TWA	
OSHA (US):	1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA	
Mexico:	1000 ppm TWA LMPE-PPT; 2400 mg/m <sup>3</sup> TWA LMPE-PPT	
	1260 ppm STEL [LMPE-CT]; 3000 mg/m <sup>3</sup> STEL [LMPE-CT]	
<b>tert-Butyl acetate</b>	540-88-5	
ACGIH:	200 ppm TWA	
NIOSH:	200 ppm TWA; 950 mg/m <sup>3</sup> TWA	1500 ppm IDLH (10% LEL)
OSHA (US):	200 ppm TWA; 950 mg/m <sup>3</sup> TWA	
Mexico:	200 ppm TWA LMPE-PPT; 950 mg/m <sup>3</sup> TWA LMPE-PPT	
	250 ppm STEL [LMPE-CT]; 1190 mg/m <sup>3</sup> STEL [LMPE-CT]	
<b>Styrene butadiene polymer</b>	Mixture	

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NIOSH:	10 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable dust	
OSHA (US):	15 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable fraction	
Mexico:	10 mg/m <sup>3</sup> TWA LMPE-PPT	20 mg/m <sup>3</sup> STEL [LMPE-CT]
<b>Methyl acetate</b>	79-20-9	
ACGIH:	200 ppm TWA	250 ppm STEL
NIOSH:	200 ppm TWA; 610 mg/m <sup>3</sup> TWA	250 ppm STEL; 760 mg/m <sup>3</sup> STEL
	3100 ppm IDLH (10% LEL)	
OSHA (US):	200 ppm TWA; 610 mg/m <sup>3</sup> TWA	
Mexico:	200 ppm TWA LMPE-PPT; 610 mg/m <sup>3</sup> TWA LMPE-PPT	
	250 ppm STEL [LMPE-CT]; 760 mg/m <sup>3</sup> STEL [LMPE-CT]	

### Biological limit value

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear chemical safety goggles with a faceshield to protect against skin and eye contact when appropriate.

#### Skin Protection

Wear work clothes with long sleeves. Wear protective shoes.

#### Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

#### Glove Recommendations

Wear appropriate chemical resistant gloves.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	light yellow liquid	<b>Physical State</b>	liquid
<b>Odor</b>	hydrocarbon	<b>Color</b>	light yellow
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	56 - 111 °C (132°F-231°F)
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	3.8

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<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	465 °C (869°F)	<b>Flash Point</b>	-18 °C (-0.4°F)
<b>Lower Explosive Limit</b>	1.2 %	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	12.8 %	<b>Vapor Pressure</b>	83 mmHg
<b>Vapor Density (air=1)</b>	4	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	Negligible	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	3500 cps	<b>Solubility (Other)</b>	Hydrocarbons
<b>Density</b>	0.97 (relative)	<b>VOC</b>	<250 g/L

**Other Information**

No additional information available.

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**Section 10 - STABILITY AND REACTIVITY**

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**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable under normal conditions of use.

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**

Acids, bases, strong oxidizing agents

**Hazardous decomposition products**

Oxides of carbon, oxides of nitrogen

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**Section 11 - TOXICOLOGICAL INFORMATION**

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**Information on Likely Routes of Exposure****Inhalation**

May cause respiratory irritation. May cause drowsiness or dizziness.

**Skin Contact**

May cause allergic skin reaction. May cause skin irritation.



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**Eye Contact**

Causes serious eye irritation.

**Ingestion**

May be fatal if swallowed and enters airways. May cause gastrointestinal irritation.

**Acute and Chronic Toxicity****Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Polychloroprene (Mixture)

Oral LD50 Rat 20000 mg/kg

Polyphenol antioxidant (Trade Secret)

Oral LD50 Rat &gt;5000 mg/kg

Dermal LD50 Rabbit &gt;5000 mg/kg

Inhalation LC50 Rat &gt;165 mg/L 1 h

Magnesium oxide (1309-48-4)

Oral LD50 Rat &gt;5000 mg/kg

Zinc oxide (1314-13-2)

Oral LD50 Rat &gt;15000 mg/kg

Inhalation LC50 Rat &gt;5.7 mg/L

Toluene (108-88-3)

Oral LD50 Rat &gt;7000 mg/kg

Dermal LD50 Rabbit 12 - 14 g/kg

Inhalation LC50 Rat 30 - 35 mg/L

Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg

Dermal LD50 Guinea pig &gt;7246 mg/kg

Inhalation LC50 Rat 32000 ppm 4 h

tert-Butyl acetate (540-88-5)

Oral LD50 4500 mg/kg

Dermal LD50 &gt;2000 mg/kg

Inhalation LC50 12.52 mg/L 4 h

Thermoplastic elastomer (Trade Secret)

Oral LD50 &gt;2000 mg/kg

Dermal LD50 &gt;2000 mg/kg

Styrene butadiene polymer (Mixture)

Oral LD50 Rat 6450 mg/kg

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Methyl acetate (79-20-9)

Oral LD50 Rat 6482 g/kg

Dermal LD50 Rabbit &gt;2000 mg/kg

Inhalation LC50 Rat &gt;49 mg/L 4 hr

**Immediate Effects**

May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system. May cause respiratory irritation. May cause drowsiness or dizziness.

**Delayed Effects**

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure: central nervous system, blood.

**Irritation/Corrosivity Data**

Causes serious eye irritation. May cause respiratory irritation.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

May cause allergic skin reaction.

**Component Carcinogenicity**

<b>Polychloroprene</b>	Mixture
IARC:	Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))
<b>Magnesium oxide</b>	1309-48-4
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
<b>Toluene</b>	108-88-3
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))
<b>Acetone</b>	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

Central nervous system

**Material Name: EPDM X-23 Low VOC Bonding Adhesive**

**Product #: 324002**

**Specific Target Organ Toxicity - Repeated Exposure**

Blood, central nervous system

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Medical Conditions Aggravated by Exposure**

May cause allergic skin reaction. Aspiration into the lungs may cause chemical pneumonitis.

**Additional Data**

No additional information available.

## Section 12 - ECOLOGICAL INFORMATION

**Ecotoxicity**

Avoid release to the environment.

**Component Analysis - Aquatic Toxicity**

<b>Polyphenol antioxidant</b>	Trade Secret
Fish:	LC50 96 h Oncorhynchus mykiss >0.2 mg/L [semi-static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata >0.2 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >0.2 mg/L IUCLID
<b>Toluene</b>	108-88-3
Fish:	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID
<b>Acetone</b>	67-64-1
Fish:	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L;

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	LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L
Invertebrate:	EC50 48 h Daphnia magna 10294 - 17704 mg/L [static] EPA; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID
<b>tert-Butyl acetate</b>	540-88-5
Fish:	LC50 96 h Pimephales promelas 296 - 362 mg/L [flow-through]; LC50 96 hr Oncorhynchus mykiss 240 mg/L
Invertebrate:	EC50 48 hr Daphnia magna 350 mg/L
<b>Methyl acetate</b>	79-20-9
Fish:	LC50 96 h Pimephales promelas 295 - 348 mg/L [flow-through]; LC50 96 h Brachydanio rerio 250 - 350 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus >120 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 1026.7 mg/L IUCLID

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

**Other Toxicity**

No additional information available.

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**Section 13 - DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Section 14 - TRANSPORT INFORMATION**

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**US DOT Information:****Shipping Name:**Adhesives**Hazard Class:** 3**UN/NA #:** UN1133**Packing Group:** II

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Product #: 324002

Required Label(s): 3

Additional information: Special Provisions (172.102): 149, B52, IB2, T4, TP1, TP8

IATA Information:

UN#: UN1133

IMDG Information:

UN#: UN1133

TDG Information:

UN#: UN1133

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**Section 15 - REGULATORY INFORMATION**

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**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Toluene</b>	108-88-3
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ; 454 kg final RQ
<b>Acetone</b>	67-64-1
CERCLA:	5000 lb final RQ; 2270 kg final RQ
<b>tert-Butyl acetate</b>	540-88-5
CERCLA:	5000 lb final RQ; 2270 kg final RQ

**SARA Section 311/312 (40 CFR 370 Subparts B and C)****Acute Health:** Yes **Chronic Health:** Yes **Fire:** Yes **Pressure:** No **Reactivity:** No**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Magnesium oxide	1309-48-4	Yes	Yes	Yes	Yes	Yes
Zinc oxide	1314-13-2	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
tert-Butyl acetate	540-88-5	Yes	Yes	Yes	Yes	Yes
Styrene butadiene polymer	Mixture	No	Yes	Yes	Yes	Yes

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Methyl acetate	79-20-9	Yes	Yes	Yes	Yes	Yes
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**The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

**WARNING!** This product contains a chemical known to the state of California to cause reproductive/developmental effects

Toluene	108-88-3
Repro/Dev. Tox	developmental toxicity , 1/1/1991

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Magnesium oxide	1309-48-4
	1 %
Zinc oxide	1314-13-2
	1 %
Toluene	108-88-3
	1 %
Acetone	67-64-1
	1 %
tert-Butyl acetate	540-88-5
	1 %
Methyl acetate	79-20-9
	1 %

### Component Analysis - Inventory

Polychloroprene (Mixture)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Polyphenol antioxidant (Trade Secret)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX

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Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No
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### Magnesium oxide (1309-48-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Zinc oxide (1314-13-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Toluene (108-88-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Acetone (67-64-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### tert-Butyl acetate (540-88-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Styrene butadiene polymer (Mixture)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	NSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Methyl acetate (79-20-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

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**Section 16 - OTHER INFORMATION**

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**HMIS Rating**

Health: 2\* Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

**NFPA Ratings**

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

New SDS: April 28, 2015

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

**Other Information****Disclaimer:**

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## Safety Data Sheet

**Material Name: EPDM X-23 Low VOC Bonding Adhesive**

**Product #: 324002**

that the person receiving it shall make his own determination of the suitability of the material for his particular use